

Machine Learning and AI

What is AI?

Artificial Intelligence (AI) is the simulation of human intelligence processes by machines, especially computer systems.

These processes include learning (the acquisition of information from an experience), reasoning (the manipulation of information to solve a problem), and problem solving (the selection of a solution from a set of possible solutions).

AI is a broad field of study that encompasses many different sub-fields, including computer vision, natural language processing, robotics, and machine learning.

Machine Learning (ML) is a subset of AI that focuses on the development of algorithms that can learn from data and make predictions or decisions based on that data.

ML is a data-driven approach to AI that uses statistical models to learn from data. It is used in a wide variety of applications, including image recognition, speech recognition, and recommendation systems.

Deep Learning (DL) is a subset of ML that focuses on the development of algorithms that can learn from data in a hierarchical manner.

DL is a data-driven approach to ML that uses neural networks to learn from data. It is used in a wide variety of applications, including image recognition, speech recognition, and natural language processing.

Behaviorism is a theory of learning that focuses on the role of the environment in shaping behavior. It is based on the idea that behavior is learned through the process of conditioning.

tradeoff is a concept in economics and decision-making that refers to the idea that one must give up one thing in order to get another thing.

Demis Hassabis is a British neuroscientist and AI researcher. He is the co-founder and CEO of Deepmind, a company that is focused on developing AI systems that can learn from data in a hierarchical manner. He has said that Deepmind's goal is to develop AI systems that can potentially solve any problem.

causation is a concept in philosophy and science that refers to the idea that one event is the cause of another event. Demis Hassabis has said that he is interested in understanding causation in the context of AI.

any problem is a phrase that is often used to describe a problem that is difficult to solve. Demis Hassabis has said that he is interested in developing AI systems that can solve any problem.

AlphaCode is a program developed by Alphabet/Google that is designed to compete in programming competitions. Deepmind is a company that is focused on developing AI systems that can learn from data in a hierarchical manner.

Demis Hassabis □ Deepmind □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
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SAE level 4

AlphaGo Zero

logical positivism logical empiricism

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Universal Approximation Theorem □ Nash Embedding Theorems □□□□□□□□□□□□
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Deepmind - AlphaGo Zero

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SAE level 4

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leukotomy

game

reward Deepmind Reward is Enough

A Treatise on Probability causation

causation

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“Confucius taught that marriage lies at the foundation of government.” causation

Marc Aurel Stein John Leighton Stuart

causation

Demis Hassabis Deepmind

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Deep Learning → reinforcement learning → Brain in a vat →

Demis Hassabis is potentially a meta-solution to any problem. The idea of using metaphysics from human does not work.

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Quantum Mechanics?the development of «decoherence theory» revealed that, using the standard formalism of quantum mechanics, macroscopically distinct branches of the wavefunction were almost entirely free from interference and evolve approximately classicallyalmost

The Many-worlds Interpretation

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Demis Hassabis is potentially a meta-solution to any problem

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